CAP T2S - Python Sample Week 6 Assessment 50 Marks

1

Write a comment on the first line that reads `Python Version Number`
Under this, write the following lines of code

```
language='Python'
version_number = 3.7
```

Add code to print out the line below. Save as **Sample1.py** (6 marks)

```
This is Python, version 3.7.
```

2

Write code prompting a user for a number less than 100. If the user enters a number less than zero inform the user that the number is negative, if the number is less than 10 inform the user that it is a one digit number, for numbers between 10 and 100 (10-100) inform the user that it is a two digit number. For all other inputs inform the user that the input must be a number less than one hundred. Save as **Sample2.py** *(12 marks)*

```
Enter a number less than 100:-44
A negative number.

Enter a number less than 100:3
A one digit number.

Enter a number less than 100:55
A two digit number.

Enter a number less than 100:2333
Must be a number less than one hundred.
```

3

Create a list of three birds. Display the list and ask the user to add another bird. If the inputted bird is already in the list inform the user, including the name of the bird, otherwise display a message that the bird, has been added to the list, include the name of the bird, and display the updated list. Save as **Sample3.py** *(11 Marks)*

```
['Sparrow', 'Hawk', 'Eagle']
Add another bird:Raven
Raven is now part of our list
['Sparrow', 'Hawk', 'Eagle', 'Raven']

['Sparrow', 'Hawk', 'Eagle']
Add another bird:Eagle
Sorry only one Eagle is allowed in our list
```

4

Write code using a *for* loop that will output the message below. Save as **Sample4.py** *(7 marks)*

```
Numbers below 100 divisible by 10:
90
80
70
60
50
40
30
20
10
```

5

Create a function named **location**, which has three parameters that are all strings. Pass the names of two cities and one country to the function. The function must not print out anything itself, but use a `return` statement to return a string. Save as **Sample5.py** *(8 marks)*

Assume the function was used in the following way:

```
output =location('Sydney', 'Melbourne', 'Australia')

print(output)
```

Then the output of the program would be:

Sydney and Melbourne are in Australia

6

Write code using Turtle that draws the following.
The first box has sides of 50 and the second has sides of 100.
The gap between is 50.
Save as **Sample6.py** (6 marks)